Stereotaxis, Inc.
NavigantTM/Niobe[®] Magnetic Navigation System

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Premarket Notification

Appendix 1: 510(k) Summary of Safety and Effectiveness

Statement

Information supporting claims of substantial equivalence, as defined under the Federal Food, Drug and Cosmetic Act, respecting safety and effectiveness is summarized below. For the convenience of the Reviewer, this summary is formatted in accordance with the Agency's final rule "...510(k) Summaries and 510(k) Statements..." (21 CFR §807) and can be used to provide a substantial equivalence summary to anyone requesting it from the Agency.

Device description

The NavigantTM Workstation with Niobe[®] Magnetic Navigation System [NWS05] is an interventional workstation for the navigation of appropriately equipped, magnetically adapted, devices (e.g., catheters or guidewires) through tissue to designated target sites. The system uses computer-controlled permanent magnets for orienting the tip of a magnetic device.

The system employs magnetic fields to *orient* or *steer* the tip of a magnetic device.

The NWS05 is a modification to the NavigantTM Workstation/Niobe[®] Magnetic Navigation System (K032937). The changes introduce new software design and mode of operation, new hardware, and a new range of motion to improve imaging, but maintain the existing technology for orientation of magnetically-adapted devices and clinical utility.

The NWS05 requires a digital fluoroscopy system to function properly.

Intended use

The NavigantTM Workstation with Niobe[®] Magnetic Navigation System is intended to navigate a compatible magnetic device through tissue to designated target sites in the right and left heart and coronary vasculature by orienting the device tip in a desired direction. The NavigantTM feature provides an enhanced navigation interface for the physician to control the MNS.

Substantial equivalence

The NWS05 is substantially equivalent to the NavigantTM Workstation/Niobe[®] Magnetic Navigation System (K032937).

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Appendix 1: 510(k) Summary of Safety and Effectiveness, Continued

Technological characteristics

The NWS05 employs magnetic fields to orient the distal tip of a magnetically-adapted device (e.g., catheter or guidewire).

Device comparisons – steering control The following is a comparison of the key features of The NavigantTM Workstation with Niobe[®] Magnetic Navigation System [NWS05] vs. the predicate device, the NavigantTM Workstation/Niobe[®] Magnetic Navigation System (NWS2; K032937).

Device	New Device -	Predicate Device -
Characteristics	NWS05	NWS2
Intended use	To navigate a	To navigate a
	compatible magnetic	compatible magnetic
	device through tissue to	device through tissue to
	designated target sites	designated target sites
	in the right and left	in the right and left
	heart and coronary	heart and coronary
	vasculature by orienting	vasculature by orienting
	the device tip in a	the device tip in a
	desired direction.	desired direction.
Direct contact with	No	No
patient tissue		
Remote physician	Yes	Yes
control of steerable		
device distal orientation		
Computer control of	Yes	Yes
steerable device distal		
orientation		
Conducted under	Yes	Yes
fluoroscopic		:
visualization		
Guided magnetic device	Specially designed	Specially designed
employed	magnetic	magnetic
	catheters/guidewires	catheters/guidewires
Steering control	Via magnetic fields,	Via magnetic fields,
	from a control room or	from a control room or
	at patient table side	at patient table side

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Appendix 1: 510(k) Summary of Safety and Effectiveness, Continued

Device comparisons - steering control (continued)

Device Characteristics	New Device - NWS05	Predicate Device - NWS2
System command	Physician-directed computer command	Physician-directed computer command
Magnetic field source	Two permanent magnets – positioned mechanically	Two permanent magnets – positioned mechanically
Operating field strength	Up to 0.10 T	Up to 0.10 T

Physical testing

Performance testing has demonstrated substantial equivalence of the new device to the predicate device.

Preclinical animal and clinical performance data The NavigantTM Workstation with Niobe[®] Magnetic Navigation System [NWS05] is a modification of the predicate NWS2. Animal and clinical data are not necessary to support the modifications. Application data (animal and clinical) for magnetic navigation were provided and/or referenced in K032937.

Contact

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Date

March 11, 2005



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

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Stereotaxis, Inc. c/o Mr. Uwe Degenhardt **TUV Product Service** 1775 Old Highway 8 New Brighton, MN 55112-1891

Re: K051760

Trade Name: Navigant™ Workstation with Niobe® Magnetic Navigation System,

Version NWS05.

Regulation Number: 21 CFR 870.1290

Regulation Name: Steerable Catheter Control System

Regulatory Class: Class II (two)

Product Code: 74 DXX Dated: April 19, 2006 Received: April 20, 2006

Dear Mr. Degenhardt:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug. and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Page 2 - Mr. Uwe Degenhardt

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Bram D. Zuckerman, M.D.

Director

Division of Cardiovascular Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

Indications for Use

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